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-1	. ,	WNWI		8		Fair	S W 2	29.	51		Cloudy Cold	N NW o	29. 80 72		
1	Cloudy	WbySI WSWo		78		Showers	W by N3		46,0	. 13	Day	1	64		
_!	Cool	NI		77			SWb.WI		43			SW1	52	-1	
2	Rain	NNE 2	8	33		Shoowry			7)		Showers	SW 37	54		
_	Warmer	•\ (38°	23		N by E i		550	• 39		SSWI	48) 	14
_	Fair	N o		36 36		Fair	W by So	1	60 62	· .	Rain	SW 5	45		
3	and Hot	SW 2		32		1 411	-		67					7.	55
-	Clandy	SW b.53	-	74		Milling	SWb. WI		64		Fair	SWO	40		
4	Miffing	S W 3		57		Fairer	W N W 2		65		Rain	S b. W 2	37		20
_	-Rain	SW 3		51		Rain	WbyNc		71		Fair	WSW 2		·	10
ا ـ	Fairer	5 by W 2 W SW 4		52 50	o. 8 7	Fair	WNW2		75°0	. 14	Rain			1	
5	Rain	SW3		56	0. 05	Showers		1	870	. 40	Fair	SW3_		0.	03
- Agrancia	Cloudy	WSWI	2	5 6	o. o 5	Cloudy	W by S 1		88		Rain	SW bW 2 SW 4	50		
6	Hot Fair	SWb.W3	<u> </u>	70		Showers Fair	W by S 3		87 0	05	Cloudy	P" 4			09
	Fair	W by So		75 77		Cool	NW b.WI	-	8.4			S b. W 4		-	
7	Rain	S VV DYS I	7	76		Fair Rain	NNW_2		81			1			
1	Fair	S W o	7	13		Fairer	NNWc	 	800	. 26	Rain		.		
	Mifty	SWO		73		Mifty	W by S 1 NNE 1		72		Kain			1	
8	very Hot	WSW I Sby Eo	7	8		Cool Rain	NNEC		72 72 I	. 57	Pair		76	o. '	77
-1		E by S 1		9		Cloudy	SW.b.W I		630			S o	81		
9	Hot and	E i	7	8		Dull	S W 2		61		Cloudy	S b. W 2	80 80		
_	Sultry	Εο	-	6		Day	NUCL NO.		58		Fog	S b. W. c	86	1	
	Same	E o		3		Rain	NW b.Ni		58 61		Fair	S by W 1			
Ĭ		Eby Sı Eo		57		I Caris	NEO	l		. 40	Cloudy	W by S c	89		
-	Thunder and Rain	ESEI	5	9 2	. 83	Cloudy	NI		63		Rain	S by E 1			
ī	Rain	SSWI			. 84	Cool	N by W 2 N 0		65		Kaid	S by E 2 E by S c	61	l	34
-	Fairer	S by W o		8	. 04	Day	N by W I	ļ	69		Fair	N I			10
2	Cloudy	NNW 1 W 2		7		Milling	N 3	l	7 ⊆		Warm	E 2	92		
-		NW3	4	74					760	. 02	Day		87	1	
-	Cloudy	N NW 1	5	40	. 01		N by W 1		79		Cloudy	E by $S \circ$ E by $S \cdot I$	70		
3	Fair	NWbW2 Nwb.wc		1		Cool	N 2 E by N c	l	84 90			ا درن تا	55	•	_;
-	Cloudy	SWb.W2	6	53		Cold	N by Eo		98		Fairer	E O	37 62	·I	
4	wth.fomc	SWb.Wi	6	3		Fair	E 2	30.	01		"" (1	NE2	63		
_	Fair	S by W 2	5	8		Gain	SE by Ec	20	60 -		Fair and	ENE 2	60		
5	Cloudy Rain	S by W3 S 4		8		Fair and	NE 2	^{2 y.}	95 96		warm			l	į
7	Cloudy	S 2	3	380	. 36	Warm			98		Cloudy Rain		51		
-	Fair	S W 3	4	13		112	E o	30;	00		Warm	N E b.E0 S b. E 2		l	
6	Cool	W SW 4		53 54	o.² 47	Same	E N E 2		04 09		Fair	0.12	44 46	0.	5 I
-	Rain	3 W 1		74	0. 06	Fair	N o		10		Rain	E by No	39		-
7	Fair Fair	S 3	7	77	-		NĚI		09		Fairer	E by S o	36	l	ار.
	Cloudy	S by W 2		73		Cloudy			05		Rain	E her C -	34		- †0
۱	Rain Milling	SWb.W3	5	I	94		€ 0 E 2	29.	95			Eby So SEI	31 34		1
8	Rain	S W 3		56 75	. 12	Cloudy	SI		94 85		Fairer		36	1. 4	13
-	Fairer	WSWI		33		Fairer	S SW o		82 -		Showers	ENEI	25		-
١٩	Fair	W b.N 2	8	7		Warm	W S W 2		82			S W 3	25		ا _ ا
_				7		Cloudy	010		80		Rain	SW I		0. 6	(
. 1	1	WSWo	1 8	4,C	. 00	Cloudy	SWO SW3		76		Cloudy	SW b.W 2	, ,	O. 1	15

76 73

SW o SW 3

20

Hot

38 42

Rain Cold and Cloudy

Quantity of Rain falling at Upminster, in Essex, the Last Six Months usand Six Hundred Ninety Eight.

,					<u> </u>							استسيف		
6. 12.9		Octob		12.9.		Novem		8. 12		1	Decemi			12. 9.
Rain.	Wearher		Barom.	Rain.	11===	-]	Barom.	. Ra	in	-	er Winds.	Biro	m.	Rain.
8c	Milling	53	29. 37		Froft	SW b.S2		63		Hard F	r. N b. W	29.	85	,
72 64	Warm Fair	S w b.S ₄	4 66	4	Sicer Cloudy	S W 2		62 62 0	, i	Fair Snow 2	EbySo	1	80	
	11	3 2	69		Fair	SSWo			12		WNWo	1-	78	
52 54	Warm &		71		Warmer	SSWI	6	6 7 0. 6 8	05	Foggy	W NW o		93	1
560. 14	Fair		7.7	7	Showers	-			03	11			11	
48	Rainy	\$ 2 8 8 F	82		Fair	SI	-	55		Cloudy	W by So	1	-1	
45		SSE 2	83			1	1		Ì	wth.gent	t. W by Sc	1	15	. 1
41 1. 55 40	. 1 1	Swb.W1		-	Showers	Sby W3		49	}	Thaw	$\frac{ W \text{ by } S }{ W \text{ by } S }$			1. 32
37	Fair		5€		warm and	S 3 S 3	4	40 30	Ì	Foggy	SW o	l	09 08	Į
160. 20	Rain	WNW7	5c	· 36	Chanda	S 4	1	50; [50.	1]	H	SW b.So		06	1
13 1. 10	11 1	WNW 2	82	2	Fair and	wsw 5	28. 9	980:	19	Fog	SW b.So		02	
	Fair	N by W3	88			Swb.W6	29. I	14	Ì	and	S by Wo	ł	၀ခ္	
480. 03	3 1	GIAT:	95	1	1	Swb.Wo		37		Missing	S by E o		000	. 41
50 46		SWb.w1 Wby N2			Frott Fair and	Swb.Wo	4	15 15	ı	Fog Warm	ESE I E 2	2 9 .	97	1
47 2. 09		W by N c			Cold	S by W o	1 4	45 43	ł	Clearer	SEDEI	1	94 92	1
41	Cloudy	W I	07	, 	Rain Fair	Swb.W3	2	220.	26	Mifty	SEO		92	
1	rair	W by N 1	07	1 1	and	W b. S4	2	28		Clearer	SEo	1	91	1
	Cloudy	W o	67		Warmer	SWbSi	4	12	1	Mifly	E by S o		88	_
1	Fair and Comewht.	N W o	10	8 H	Rain	SI		24	1	Mist Fair	E by So	1	830	0. 04
75 0. 77	Cooler	N by W 1	13	2 . 1		W b. S 2 W S W 2		12 272.	3 0	Fog	E by S 1 SW b.Sc	Ĭ	86	1
81		N W o	07	-		S W 2			3° 23.	Rain	S by W 2		940.	
8ା	and	$w S w_1$	c3	3	Cloudy	WSW ₂	4	12	-5	Cloudy and	S by W 3	ł	99°.	· .03
8ା	Cooler	S W 3	29. 88		Snow	SSEI	2	27	200	Warm	SSW4	١,	91	1
86		W by N3	62	.1. 551	Cloudy	WSWc	4	420.	36	Cloudy.	5.6		66	
8 <i>9</i> 8 <i>9</i>	8air	WNW3 SW3	76 61	1	Mifty	SW b.S 1	4	48 47		Rain Fair	W b. S 6		64	
89 81	Rain	3 W 3		-] [Day Snow 82	N7 1-		47	_	Fair and	W.b. S 2	26	960,	. 49
70	Cloudy	W b. N 3	35 31	0. 63		N by E I		48 47		Cooler	WSW4 SW3	30.	IC	
61 F. 34	Cloudy	W b. N 💈	37		all Day		4		66	Cloudy		!	00	1
860. 01	Cloudy	W 2	3		Snow-	1 0. W 2	4	162.	56	Raiñ	WNW 3	29.	790.	• 72
92	and fome		3°	9 11	3 Inches	Nb. W 1	5	5 #		Fair				. 14
87	Rain	177 1- 0		O. 23	Cloudy	(65			30.	11	[
70 51		W b. S o N 2	14 09	2. 02		W by So	1	8		Frost Fair	SE b.So S SE 1	_	10	-1
	Cold		o8		and Fair	W SW 1	6	52	1	Cloudy	1 1		06 96	1
55	Fair	W by No	20		Fair	w sw i	6	53	1	1		<u>~</u>		
02	Rain	N by E 2	3€		Snow &	W by S 2	6	51	1	Rain	1			1
53	Cloudy Hoar We	N			Hard Fr.		7	70	_	- stattl				1
50	Hoar Fr.			1		NNWI		98	-1	1			1	
51	Cold	20141	47 47	1 1	Misty & less Cold	⊮by N o	30. O	10	1	1			١	4
41	Icy Front		50	1		1 1	29. 9			Cloudy	S b. W 2		6/-	
14	Fair and		5 3 6 1	1 1	Fair	5 S E 2	9:	2	1	Rain	S 3		600.	01
160. 61	€old				Thaw	! [81	1	_	W al III	7		440.	00
9	Ice and I	NNWI	62	1	Froft	S a.	6	70.	18	I waim	S by W 6		09	
41. 16		1	57	1 1	and	1	1			Cloudy	W byS 6		1 C	1
1 46	Ice	SI		O• 34	Fair Rain	S E b.S ₂	37		_	Rain	SW b.S 2		22 0.	42
4	Cloudy S	SW ₂	. 44 3 3	· [,	Rain Fair and	Sw bywa	07			and	SW b. S 3 SW b. S 2		32 o.	40
61. 43	Fair		15	' l	Cold			10. 0) ₄	Warm			30 3 4	1
5	Cold.		28. 91		Rain and	S by E 2	28	8		Fair	S by W o	2	72	-1
5		S by E 2	84	! !!	Cold Thaw	S w b. 53	14	4	11		S by E 1	•	67	1
10. 65		Z 787 -		1. 20	Fair Rain		20	o o. 1					35	1
o. 15	and	S W 2 W by S 2	29. 01 12	0, 41	1	5 W 2		0. 4	14	Rain	S by F. ela	2	230.	56
8 2	Cloudy	uy 3 2	24	1	Fair and S Warm	∨ w 4	2 7 31	7;			S by E 5 2	٥. ي	98 68 a.	
	احتصا		7				31	_	_4				201O.	

10	Same	E by S I	72 67		Rain	N I N E o		51 53 1. 40	Cloudy	S by W I W by S o	89		l'an
-	Thunder and Rain	E o E S E 1		2. 83	Cloudy	NI		53	-	S by E 1	81		Rain Cloudy
11	Rain	SSWI		o. 8 4	Cool	N by W 2		55	Rain	S by E 2 E by S c	6.7	F. 34	Fair Cloudy
-	Fairer Cloudy	S by W o	48	ii	Day	N by W I	9	59	Fair	NI	86	o, or	Cloud
12	,	W 2	47		Milling	N 3	1 :	7C	Warm Day	E 2	92 87		and fo Rain
	1	NW3	- 47	4. 98 0. 01	Fair and	N by W 1		16 0. 02		E by S o			Fair
13		N NW 1 NW5 W 2	54 61		Cool	N 2	8	4	Cloudy	E by S I	61		Warm Cold
_	Name and Address of the Park o	Nwb.wc	62		Cold-	E by No		8	.	EO	55 57		Fair
14	Cloudy wth.(omc		63		Fair	E 2	30.	1	Fairer	NE2	62 63		Rain Cloud
	Fair	S by W 2	<u>58</u>		Fair	SE by Eo			Fair and	ENE 2	60		Hoar
15	Cloudy Rain	S by W3 S 4	43	1 .	Fair and	NE 2	9	5	Warm Cloudy				Fair a
	Cloudy	S 2	38	0. 36	Warm			8	Rain	N E b.Eo	51		Cold Icy Fr
16	Fair Cool	5 W 3 W SW 4	43 53		Same	E O E N E 2	1	4	Warm	S b. E 2	41 44	ı	Fair ai
	Rain		64	0. 47		<u> </u>		9	Fair Rain	E by No		0. 61	Gold Ice and
17	Fair Fair	S W 1 S 3	74 77		Fair	N o N E 1	1	9	H	E by S o	36		Fair
1	Cloudy	S by W 2	73		Cloudy			5	Fairer Rain		34	1. 46	Rain
- 0	Rain Milling	SWb.W3	ŞI		Claudy	£ 0 E 2		5	11	Eby So 3 E 1	31 34		Ice Cloudy
18	Rain Fairer	S W 3	56 75		Cloudy	SI	8	4	Fairer		36	1. 43	Fair
	-	WSW1	83		Fairer	S SW o	8	2	Showers	ENE 1 SW3	25		Cold.
19	Fair	W b.N 2	87 87		Warm Cloudy	WSW2		2	Rain	3 17 5	25 31	0. 65	Rain
		W SW o		0. 00	Cloudy	SWO	7	6	Cloudy	SWI		0. 15	Cold and
20	Hot				Fair	SW3	7	3	11	SW. b.W 2	38 42		Cloudy
					Fair	SW b.S :	5	-1	Foggy	SWo	46	0. 55	Frost a Fair
2.1					Cloudy	S S W 2	5	8	Shower- Fair	NSWI	49 5 2	0. 01	Cloudy
1-1		——————————————————————————————————————				SSEI	<u>5</u>		Hoar Froft	SW b.W o	47		Shower Hail
22		1				S 3		1	Fair	S 2	41	o. 20	Shower
					Rain Rain	S 0	3	70. 10 80. 48	Rain Fair	SWI	42		Hard F
23						SE b.E 2	5	1	Warm	WSW3	42		and Fair
-]				Thunder Showers	S by E 1		31. 50	Colder Fair	SSW o	<u>44</u>		Shower Fair
24					1	S 3	4		Cooler	SEb.Ei	43		Warm Rain
-	Thunder &				Fair	SWI		20. 01	Cloudy Rain	SSE 2	31	. 42	Rain-
25	Rain but Fair at Tun-	ĺ				Wb. NI	4		,	DSE2	20	" 44	Mild Weathe
	bridge-Wel			I	Fair	ESE0	4	2					Cloudy
26					Fair	NW 2	4 4		Fair	1	1		Fair and
_		S W 2		4. 10	E	NI	4		11			0. 01	Warm Rain-
27		Wby SI	67 7 8		Fair and good Har.	SWo NW2	5	0	Fair and Pleasant	S S E 1 S 3	4 ² 4 ²		Fair Cloudy
	Cooler	W SW o	83	1	Weather		6	7	Rain		41		Rain
28	Fair Cool and	SW b.So	8 6		Fair	SW 1 SW 2	7	5	Fair Showers	So	40° 36	. 03	Mist Fairer
		S 2	80		Rain	۰,,,	7	6	Fair	O 3	26	. 01	Rain
29	Rain	5 by W 3	68	0. 02	1	WI	7	2	Rain	Eb.SI	05	0. 04	Cloudy Colder
27	Fair	wsw o	76		Fals Rain	WSW3	7	6 3 0. 11	Rain	5 b. E 3	06 06	. 76	Rain
	Fair	S W o	75		fome Fair	SWo	7	اك	Rain	S b. E 2	04		Snow Sleet
30	Mifling	7	41		and fome Rain	22M3	7	5 0 0 35	Warm Fair	SSW 4	07 36	0. 40	Fairer
	Fair	W by Ss		0. 10	Cool	N W o	8	30. 02		 			Hard
31	Cooler Cloudy	W 4	5.2		Fair with	NW b.N2	8	7. 02	11		Total	12. 07	Froft Cloudy
•	-roda A	•	57	1-1:-5	T(#1[]		, 8	41/	1,	I	· IOIGI	j .	- I Orong)

89	Can	S W 3	61		Mility	SW 6.5	1	47	Katu Fair	W.b. S	2	64 96	-1
81	Rain Cloudy	Wb. N3		0. 63	Snow &	N by E	ī	48	Fair an Cooler	WSW	4 30.	10	
70 61 31 [- 3 4	Fair Cloudy	W b. N 3	3 ¹ 37		Sket all Day	N by E		47 432. 60	Cloudy	, , , , ,		14	1
86°. or	Cloudy	W 2	3	l	Snów- Snow	M D W 2		46 2. 50	Rain	WNW	3 29.		0.
92 87	a n d fome Rain	W_3	30 25	o. 23	3 Inches Cloudy	Nb.W		5+ 650. 6	Fair		30.	11	'
70	Fair	Wb.So	1 '	0. 23	Hard Fr.	W by S		60	Froft	SE b.S	0	I.C	
61	Warm Cold	N 2	o8 o5		and Fair	w św	1	58 62	Fair, Cloudy	SSE	29.	06	
55 37 62	Fair	W by No	20	<u> </u>	Fair	w sw		63	-		- 29.	96	-
62	Rain Cloudy	N by E 2		D. 07	Snow &	W by S	. 1	61 70	Rain				
63 60	Hoar Fr.	Nw b.No	47		Hard Fr Frost	NNW	1	90	-				
	Fair and Cold	Nw b.Ni	47		Misty &	W by N c		98			1		
51 41	Icy Frost	N NW I	<u>47</u>		less Cold Cloudy	SI		92	Cloudy	S b. W	_	6 c	
44	Fair and Cold	N by W I	5 3 6 1		Fair -	SSE2		92	Rain Warm	S 3	2	50	
46 0. 61 39		NNWI	62		Thaw Froft	Sa		57.0. 18	Rain	S by W			0. 0
36	Fair				and	3 4	l		Warm Cloudy	1,77		0 9	
34 1. 46	Rain Ice	Si	57	0. 34	Fair	S E b. S ₂		37	Rain-	- _	.	22	0. 4
34	Cloudy	S W 2	33		Rain Fair and	Sw byw2	1	16	Cloudy and	SW b.S SW b.S	3	3 ² 30	o. 4
36 1. 43	Fair Cold.		15 28. 91		Cold	1		310. 04	Warm Fair			34	
25		ESE2 Sby E2	84		Rain and Cold Than	S by E 2 S w b. S2		28	Cooler	S by W o		72 67	
310. 65	Rain	·		I. 20	Fair Rain		2	100. TO	Rain	_		35	
o. 15	and	S W 2 W by S 2	29. 01 12	0, 41	Fair and	15 W 2		7	Rain	S by E	28	23	0. 50
2	Cloudy		24		Warm	1 1		1		_	20.	9 ⁸	9. 2.
60. 55	Frost and Fair	No NW2	23 24		4114	S w 4		42. 81	Fair and	W 4 W 3	29.	36	
	Cloudy		46		Warm	Sw3	4	8	Co der	1		52 52	
7		NNEO S2	50		Frost and	W by S 1	7	7	Rain	W b. S 4		49	0. 17
70. 20	Showers	32	51 57	. 41	Fair Cloudy		8 7	5	Fair	wsw		55 66	•
2		SE b.E o	65		Rain			-	Cl- I			81	
.2	Fair	E SE I	68 70	İ	and Watm				Cloudy	6		65	
4		E o	62	0. 04				-	Cloudy	SW7		34	
3	Warm Rain		1	D. 10	Rain				Warm Fair	W by N 8		56	
	Rain Mild	S 3	40		-Stormy	SWb. \$ 8		5 1. 15 5 0. 61		W by S 2		82	
	Weather	S by E 3	24 42	1	Fair	Swb.W8	30	0	Fair	W SW 2		94 95	
-[[]	Cloudy	SSE 2	48		fomeRain	3 S W 4	5; 4	0. 15	Cloudy	W b. S 3	30.	00	
		SE b.S 3	47	l	Rain	Swb.ws	33	3	and Warm	W b. S 4	- 7.	93 90	
5 0. 01	Rain	S by W o	43 52	[fmall Fr.	W C 187 -		0. 07	Rain	W b. S 4		77	
2	Fair Cloudy	-, 🤘	52	1	and	WSW3	29	7	Colder Fairer	SWb.W4		50 43	
10. 11	Rain	W 0 1	42'c	. 80	Fair		53		E 0	S W 3		0.	21
6 11	Fairer 1	NNE 2	41 ₂₄		Same	W by S 1 W by N1	41 44		and Fair	₩ 3		49	
60. 01	Rain		46 ₀	05			37	<u> </u>	Frost			40	
6 04		N by E 2	41 41			E by N 1 E by N 2	19		Rain	SW7 SW8		88	
06 0. 76	Rain		41		Sleet.	S UJ IN 2	09	0. 74	Colder Snow		,	79 69	
	Sleet	Niby E 4	22 1	. 23		N by W4	. 56	5	Froft	W b. S 3		79 o.	69
360. 40	Fairer	N 3	23 42	. 29	Fair Rain	NNW 2	6 6	So. 01	and Fair	W b. S 3	1	89	
-	Hard	<u> </u>	62			——	· ·		Froft	wo	29.	23	
1 12. 07	Froft Cloudy	1	761	3. 08		}	Tarat	16. 83	and	W NW 2		36 =	=
1 112. 571	Cioneà 1	1	70,	J 1	•	. /	1 Ofal	051	rair	•	6	7 5	83

V. An Account of what Rain fell at Townly in Lancashire, in the Years 1697, and 1698. with some other Observations on the Weather; being part of a Letter of the 12th of Jan. 1698. from Richard Towneley Esq; to Mr. William Derham.

	1697	1698
	FRANCISCO CONTRACTOR C	
January	5 13	6 47
February	7 17	5 88°
March	4 93	20 16
April	4 12	20 95
May	ri 88	8 95
June	8 92	6 45
July	13 50	10 37
August	40 25	21 50
September	46 90	21 79
October	27 60	22 26
November	10 72	24.72
December	24 50	20 42
	California and the same	-
Sums	205,70	189,92
	Dermanden betretten der	
These doubled	41,040	37,984

In the Table of the Observations I have only set the Quantity of Rain in Pounds and Centesimals, which is double, you will have them to answer to those Numbers formerly printed in the *Philosophical Transactions* giving the Numbers of half Pounds, and (near enough) the height of the Water also. So the last Year there sell

G 2

189.93

189.92 Pounds Troy, which-doubled make 37,984 Inches, the Inches the Water would have filled any Cylindrical Vessel.

As far as I have learn'd, the Mercury rifes and falls much after the same measure in most parts of our Mand. and of this you may better judge by some Observations I have here transcribed and sent you of the very low Stations, Dec. 28. about Three of the Clock Mercury 28.17. on the 29th about 2 h. 1 28.18. and Jan. 2. about the same Hour 28,05, and this time it hardly rise before I went to bed; and on the 6th still about 3 h. 28,19. but this time before 9 at Night it was got to 29,28. what I note is, that though once I faw it lower many Years ago, yet never fince I kept my Observations, did the Quick-silver descend so often to those Pitches; or when it was found very low, did it ever continue so for any confiderable time, as it hath done this Year, during which it hath never been very high, and as I remember, generally much lower than other Years. This hath proved very unfeafonable here, and so backward, that I thought I had never known the like; but examining my Observations, I find that of 1673. much what as late, though the Consequence proved not so fatal to these Parts or all Europe, as this.